

## DATA SHEET

### PRTA04 AIR TEMPERATURE PROBE PT100

#### Description

This probe uses the straight handle for fine control. This probe is used for the measurement of the temperature of gases.

#### Construction

The probe features an exposed PT100 flat film sensor protected by a stainless steel sheath : Stainless Steel 316 (Food Grade) 2M curly polyurethane cable to tails

Please note that this probe is not supplied with a connection plug for ease of hardwiring. Our PT100 probes can be purchased with 4-way plug as standard, other connection plugs available if required.  
4-way PRT plug order code: PRTPLUG

#### **Sensor Features**

➤ **TOTAL ENCAPSULATION TECHNIQUE FOR MAXIMUM STRENGTH AND DURABILITY.**

This results in a solid handle as opposed to a hollow handle. This is particularly important as there is often damage to the handles caused by excess heat. With a hollow handle it is possible to puncture the outer plastic and damage the sensor irreparably.

➤ **WATERPROOF HANDLE**

Due to the total encapsulation method used, all TME probe handles are completely waterproof.

➤ **TOUGH POLYURETHANE CABLE**

- Polyurethane cables are used in place of the standard PVC for the following reasons :-
- Greater retractability
- Enhanced memory of it's curl
- Non-Toxic
- Greater mechanical strength for durability
- 12 X 0.2mm wires used internally for greater strength.
- PTFE inner insulation for strength and retractability.

➤ **HIGH ACCURACY FLAT FILM PT100 SENSOR**

PT100 Sensor : Class A (±0.15°C ±0.2%) (BS1904 Class A)

➤ **POLYPROPYLENE HANDLES**

Polypropylene is an extremely tough and durable material, commonly used for milk crates, it has good low temperature performance and a relatively high melt temperature. It performs exceptionally well under chemical attack.

- **WIDE AMBIENT TEMPERATURE SPECIFICATION** : -30 TO 50 °C
- **TIME RESPONSE (96% of value in moving gas)** : 3.0 Secs
- **MEASUREMENT RANGE** : -50 TO 500 °C

#### Cross-reference for compatible instruments

Suitable instruments for use with this probe

	DESCRIPTION	APPLICATION
MM2050	MAX / MIN HOLD INSTRUMENT	HIGH ACCURACY INSTRUMENT WITH MAX, MIN AND HOLD FEATURES